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PCT

PATENT
Docket No.: 20747/280 (ARDBW/P29385US)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants :	Rodney William Kelly)	Examiner:
)	To Be Assigned
Serial No. :	10/532,291)	Art Unit:
Cnfrm. No. :	To Be Assigned)	To Be Assigned
Filed :	October 21, 2003)	
For :	COMPOSITIONS FOR THE TREATMENT OF AUTOIMMUNE DISORDERS)	
)	

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §§ 1.97-1.98

Mail Stop: Amendment
 Commissioner for Patents
 P.O. Box 1450
 Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR §§ 1.97-1.98, applicant hereby brings to the attention of the United States Patent and Trademark Office, the enclosed references listed on the attached PTO-1449 form. Reference Nos. 7, 9, 12, 21, 28, 64-65, 93, and 111 were cited in a International Search Report (copy enclosed) for the corresponding PCT patent application. Reference No. 16 was cited in search report from the United Kingdom (copy enclosed).

Pursuant to 37 C.F.R. § 1.98(a)(2)(ii), copies of the cited U.S. Patents (i.e., Reference Cite Nos. 1-13) are not enclosed. Copies of all other listed references (i.e., Reference Cite Nos. 14-120) are enclosed herewith.

Pursuant to 37 CFR § 1.97(b)(3), no fee is required. If additional fees are required, however, the Commissioner is hereby authorized to charge any fees to Deposit Account No. 14-1138.

Respectfully submitted,

Date: August 29, 2005

Edwin V. Merkel
 Registration No. 40,087

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R872285.1

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I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450, on the date below.	
Date	8/30/05
Mary Burke	

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Substitute for form 1449A/PTO				<i>Complete if Known</i>	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	10/532,291
				Filing Date	October 21, 2003
				First Named Inventor	Rodney William Kelly
				Art Unit	To Be Assigned
				Examiner Name	To Be Assigned
Sheet	1	of	9	Attorney Docket Number	20747/280 (ARDBW/P29385US)

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)				
1	US-4,034,087		07/05/1977	Voorhees		
2	US-4,127,612		11/28/1978	Kluender et al.		
3	US-5,229,496		07/20/1993	Deeley et al.		
4	US-5,391,485		02/21/1995	Deeley et al.		
5	US-5,393,870		02/28/1995	Deeley et al.		
6	US-5,602,007		02/11/1997	Dunn et al.		
7	US-5,891,432		04/06/1999	Hoo		
8	US-5,908,829		06/01/1999	Kelly		
9	US-6,010,905		01/04/2000	Cohen et al.		
10	US-6,127,378		10/03/2000	Gutterer		
11	US-6,280,718 B1		08/28/2001	Kaufman et al.		
12	US-6,458,585 B1		10/01/2002	Vachula et al.		
13	US-6,458,589 B1		10/01/2002	Rambhatla et al.		

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³	Kind Code ⁵ (if known)				
14	DE 100 64 991 A1			06/27/2002	Volker		X
15	DE 24 31 558			01/23/1975	Kuehl jun et al.		X
16	EP 0 269 017 B1			07/29/1992	Zimmermann et al.		
17	EP 1 097 922 A1			05/09/2001	Maruyama et al.		
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23	WO 02/092064 A2			11/21/2002	Kelly		
24	WO 91/06571			05/16/1991	Gefter et al.		
25	WO 92/08474			05/29/1992	Kay et al.		
26	WO 94/24281			10/27/1994	Garman et al.		
27	WO 96/30022			10/03/1996	Desai et al.		
28	WO 99/12563			03/18/1999	Berzofsky et al.		

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¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at 222.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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	29	“Leukine®,” Package Insert, Approved Text (February 1998)			
	30	ALGHAFER & SIGAL, “Rheumatic Manifestations of Gastrointestinal Diseases,” <i>Bulletin on the Rheumatic Diseases</i> 51(2):1-7 (Retrieved from the internet at http://www.arthritis.org/research/bulletin/vol51no2/51_2_printable.asp) (March 10, 2005)			
	31	ASANUMA et al., “Successful Treatment of Interstitial Pneumonia with Lipo-PGE1 and Pentoxifylline in a Patient with Dermatomyositis,” <i>Ryumachi</i> 37(5):719-726 (1997) (English language abstract only)			
	32	ASSEMAN et al., “Interleukin 10 is a Growth Factor for a Population of Regulatory T Cells,” <i>Gut</i> 42(2):157-158 (1998)			
	33	AITKEN et al., “Significance of Intracellular Calcium and Cyclic Adenosine 3',5'-monophosphate in the Mechanisms by Which Prostaglandins Influence Human Sperm Function,” <i>J. Reprod. Fert.</i> 77:451-462 (1986)			
	34	BELL, J., “Transplantation: Privileged Beginnings,” <i>Nature Reviews Immunology</i> 2:75 (2002)			
	35	BERENDS et al., “Inhibitions of PAF-Induced Expression of CD11b and Shedding of L-Selectin on Human Neutrophils and Eosinophils by the Type IV Selective PDE Inhibitor, Rolipram,” <i>Eur. Respir. J.</i> 10:1000-1007 (1997)			
	36	BRAUN et al., “Cholera Toxin Suppresses Interleukin (IL)-12 Production and IL-12 Receptor β1 and β2 Chain Expression,” <i>J. Exp. Med.</i> 189(3):541-552 (1999)			
	37	BRODSKY et al., “Forskolin Induces U937 Cell Line Differentiation as a Result of a Sustained cAMP Elevation,” <i>Eur. J. Pharmacol.</i> 350(1):121-127 (1998)			
	38	BUCHSEL et al., “Granulocyte Macrophage Colony-Stimulating Factor: Current Practice and Novel Approaches,” <i>Clin. J. Oncol. Nurs.</i> 6(4):198-205 (2002)			
	39	BUG et al., “cAMP Analogues Downregulate the Expression of Granulocyte Macrophage Colony-Stimulating Factor (GM-CSF) in Human Bone Marrow Stromal Cells <i>In Vitro</i> ,” <i>Mediators of Inflammation</i> 7:195-199 (1998)			
	40	BURZYN et al., “Decrease in cAMP Levels Modulates Adhesion to Fibronectin and Immunostimulatory Ability of Human Dendritic Cells,” <i>J. Leukoc. Biol.</i> 72:93-100 (2002)			

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	41	CANTRELL et al., "Cloning, Sequence, and Expression of a Human Granulocyte/Macrophage Colony-Stimulating Factor," <i>Proc. Natl. Acad. Sci. USA</i> 82(18):6250-6254 (1985)			
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	46	DOUSA, T.P., "Cyclic-3', 5'-Nucleotide Phosphodiesterase Isozymes in Cell Biology and Pathophysiology of the Kidney," <i>Kidney International</i> 55:29-62 (1999)			
	47	DRUKKER et al., "Characterization of the Expression of MHC Proteins in Human Embryonic Stem Cells," <i>Proc. Natl. Acad. Sci. USA</i> 99(15):9864-9869 (2002)			
	48	DUNN et al., "IL-15 Regulation in Human Endometrial Stromal Cells," <i>J. Clin. Endocrinol. Metab.</i> 87(4):1898-1901 (2002)			
	49	ESCOFIER et al., "Effects of Interleukin-10 and Modulators of Cyclic AMP Formation on Endotoxin-Induced Inflammation in Rat Lung," <i>Fundam. Clin. Pharmacol.</i> 13(1):96-101 (1999)			
	50	GASPAR ELSAS et al., "Murine Myeloid Progenitor Responses to GM-CSF and Eosinophil Precursor Responses to IL-5 Represent Distinct Targets for Downmodulation by Prostaglandin E ₂ ," <i>Br. J. Pharmacol.</i> 130(6):1362-1368 (2000)			
	51	GENBANK ACCESSION NO. NM_000758 (2002)			
	52	GOERDT et al., "Other Functions, Other Genes: Alternative Activation of Antigen-Presenting Cells," <i>Immunity</i> 10:137-142 (1999)			

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	53	GROUX et al., "Interleukin-10 Induces a Long-Term Antigen-Specific Anergic State in Human CD4 ⁺ T Cells," <i>J. Exp. Med.</i> 184:19-29 (1996)			
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	57	HANIFIN & CHAN, "Monocyte Phosphodiesterase Abnormalities and Dysregulation of Lymphocyte Function in Atopic Dermatitis," <i>J. Invest. Dermatol.</i> 105:84S-88S (1995)			
	58	HANIFIN et al., "Type 4 Phosphodiesterase Inhibitors Have Clinical and <i>In Vitro</i> Anti-Inflammatory Effects in Atopic Dermatitis," <i>Journal of Investigative Dermatology</i> 107:51-56 (1996)			
	59	HARIZI et al., "Cyclooxygenase-2-Issued Prostaglandin E ₂ Enhances the Production of Endogenous IL-10, Which Down-Regulates Dendritic Cell Functions," <i>J. Immunol.</i> 168(5):2255-2263 (2002)			
	60	HASKÓ et al., "Suppression of IL-12 Production by Phosphodiesterase Inhibition in Murine Endotoxemia is IL-10 Independent," <i>Eur. J. Immunol.</i> 28:468-472 (1998)			
	61	HATA et al., "Granulysin Blocks Replication of Varicella-Zoster Virus and Triggers Apoptosis of Infected Cells," <i>Viral Immunol.</i> 14(2):125-133 (2001)			
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	63	HOLT et al., "MHC Class II Antigen-Bearing Dendritic Cells in Pulmonary Tissues of the Rat," <i>J. Exp. Med.</i> 167:262-274 (1988)			
	64	ICHIMURA et al., "Differentiation of a Cell Line of Human Cervical Argyrophil Small Cell Carcinoma to Macrophage Lineage Cells," <i>Jpn. J. Cancer Res.</i> 90:523-529 (1999)			

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	65	KALIŃSKI et al., "Dendritic Cells, Obtained from Peripheral Blood Precursors in the Presence of PGE ₂ , Promote Th2 Responses," <i>Adv. Exp. Biol.</i> 416:363-367 (1997)			
	66	KALIŃSKI et al., "Final Maturation of Dendritic Cells Is Associated with Impaired Responsiveness to IFN-γ and to Bacterial IL-12 Inducers: Decreased Ability of Mature Dendritic Cells to Produce IL-12 During the Interaction with Th Cells," <i>J. Immunol.</i> 162:3231-3236 (1999)			
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	69	KANAMORI et al., "Migration of Neutrophils from Blood to Tissue: Alteration of Modulatory Effects of Prostanoid on Superoxide Generation in Rabbits and Humans," <i>Life Science</i> 60(16):1407-1417 (1997)			
	70	KANDA & WATANABE, "Ganglioside GD1a Enhances Immunoglobulin Production by Human Peripheral Blood Mononuclear Cells," <i>Exp. Hematol.</i> 28(6):672-679 (2000)			
	71	KELLY & CRITCHLEY, "Immunomodulation by Human Seminal Plasma: A Benefit for Spermatozoon and Pathogen?" <i>Human Reproduction</i> 12(10):220-2207 (1997)			
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	76	KREN SKY, A.M., "A Novel Antimicrobial Peptide of Cytolytic T Lymphocytes and Natural Killer Cells," <i>Biochem. Pharmacol.</i> 59(4):317-320 (2000)			
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	80	MAIER et al., "Unique Molecular Surface Features of <i>in vivo</i> Tolerized T Cells," <i>Proc. Natl. Acad. Sci. USA</i> 95:4499-4503 (1998)			
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	82	MIYATAKE et al., "Structure of the Chromosomal Gene for Granulocyte-Macrophage Colony Stimulating Factor: Comparison of the Mouse and Human Genes," <i>EMBO J.</i> 4(10):2561-2568 (1985)			
	83	MORIUCHI et al., "Synergistic Inhibition of Pannus Tissue Development In Vitro by PGE1 Plus Phosphodiesterase 4 Inhibitors," <i>Arthritis and Rheumatism</i> 41(9):S161 (1998)			
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	85	MÜLLER et al., "Subtypes of the Type 4 cAMP Phosphodiesterases: Structure, Regulation and Selective Inhibition," <i>Trends Pharmacol. Sci.</i> 17:294-298 (1996)			
	86	NÉMETH et al., "Amrinone and Theophylline Differentially Regulate Cytokine and Nitric Oxide Production in Endotoxemic Mice," <i>Shock</i> 7(5):371-375 (1997)			
	87	NEWBERRY et al., "Cyclooxygenase-2-Dependent Arachidonic Acid Metabolites Are Essential Modulators of the Intestinal Immune Response to Dietary Antigen," <i>Nature Medicine</i> 5(8):900-906 (1999)			

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	88	NEWBERRY et al., "Spontaneous and Continuous Cyclooxygenase-2-Dependent Prostaglandin E ₂ Production by Stromal Cells in the Murine Small Intestine Lamina Propria: Directing the Tone of the Intestinal Immune Response," <i>J. Immunol.</i> 166(7):4465-4472 (2001)		T ²
	89	NINNEMANN, J.L., "Monocytes and Macrophages," in <i>Prostaglandins, Leukotrienes, and the Immune Response</i> , Chapter 3, pp.34-52 (1988)		
	90	OCHOA et al., "T-Cell Release of Granulysin Contributes to Host Defense in Leprosy," <i>Nature Medicine</i> 7(2):174-179 (2001)		
	91	PALFREYMAN & SOUNESS, "Phosphodiesterase Type IV Inhibitors," <i>Progress in Medicinal Chemistry</i> 33:1-52 (1996)		
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U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	U.S. Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
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2	US-4,127,612		11/28/1978	Kluender et al.	
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		Country Code ³ Number ⁴ (if known)			
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